

ROUND ROCK ISD Technology Plan

2011 - 2014

Jesus Chavez

SUPERINTENDENT

DISTRICT PROFILE

ESC Region 13
City, State Zip ROUND ROCK, TX 786814999
Phone (512) 464-5000
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County District Number 246909

Number of Campuses	49
Total Student Enrollment	45800
District Size	25,000 - 49,999
Percent Econ. Disadvantaged	18.39%

Technology Expenditures	\$14,785,000.00
Technology budgets reported in plan by category	Teaching and Learning Budget \$6,110,000.00 Educator Preparation and Development Budget \$305,000.00 Leadership, Administration and Support Budget \$1,025,000.00 Infrastructure for Technology Budget \$7,345,000.00 Total: \$14,785,000.00
Technology Expenditure Per Pupil	\$322.82
Number of Campuses with Direct Connection to Internet	49
Percentage of Campuses with Direct Connection to Internet	100.00%
Number of Classrooms with Direct Connection to Internet	3300
Percentage of Classrooms with Direct Connection to Internet	100.00%
Computer/Student Ratio	3 student(s) for every computer
Computer/Teacher Ratio	1 teacher(s) for every computer
Number of campuses that need to complete the Texas Campus STaR Chart	49
Percentage of campuses that have completed the Texas Campus STaR Chart	22.45 %

Plan Introduction

Plan Last Edited 03/30/2011

Plan status: not submitted
Years Included in the Plan: 2011 - 2014
Number of years covered by the plan: 3

Does the district file E-Rate? yes
The district had a "written" plan before E-Rate Form 470 was filed on .

Technology Planning Committee

The Technology Long Range Planning Committee included the Steering Committee listed below and the campus Instructional Technology Specialists:

Steering Committee

Robert Autrey, Elementary Lead Technology Integration Specialist
MaryJo Humphreys, Director, Instructional Technology
Matt Matthys, Assistant Superintendent, Instructional Support
Jeff Uselman, Secondary Lead Technology Integration Specialist
Ed Zaiontz, Executive Director, Information Services

Executive Summary

The Technology Long Range Plan (2011 - 2014) for Round Rock ISD encompasses the goals, objectives, and strategies for all aspects of technology use for RRISD students and staff. The plan is framed in the context of the following documents:

1. RRISD's Strategic Plan
2. No Child Left Behind (NCLB) Act of 2001
3. Texas Long Range Plan for Technology, 2006-2020
4. Schools and Libraries Universal Service Support Program (E-Rate)

The Round Rock ISD community has supported technology integration in the school district by supporting bond referendums in 1997, 2000, 2006, and 2008. In the 1997 bond referendum, \$22 million was allocated to build campus local-area-network infrastructure for voice, data, and video. The 2000 bond referendum included \$38 million for technology initiatives includes the construction of a district fiber wide-area-network and the integration of almost 4000 wireless notebook computers that expanded access to electronic resources for RRISD students. A 2005 bond election, that included \$38 million for expanding technology initiatives, in RRISD failed. However, a modified version of the 2005 bond election was approved by RRISD voters in November 2006. The \$267 million approved by voters included \$23 million for technology projects. A November 2008 bond election included approximately \$30 million for technology initiatives.

Round Rock ISD recognizes the increasing importance that technology plays in support of both the instructional and administrative areas in the district. Instructionally, RRISD will create learning environments with ubiquitous access to technology and connectivity to equip students with the skills and knowledge to be competitive in a global information-based economy. Administratively, RRISD will analyze and implement technology solutions that will increase organizational efficiencies, improve communications with stakeholders, and provide safe and secure environments for students and staff.

Successful implementation of this plan will require a united effort of RRISD students, parents, teachers, campus and district administrators, and the support of the RRISD community. Successful implementation of this plan will also require the availability of financial and staff resources to meet the challenges presented by a rapidly changing technology environment.

Needs Assessment

Assessment Process:

During the 2007-2008 school year, a Citizen Bond Committee was formed to assess the capital improvement needs by RRISD in the following areas: District Growth, Safety and Health, Curriculum and Technology, and Infrastructure. The budget outlook for 2011-2013 is not yet determined, but will probably be considerably less with respect to personnel and funds for hardware/software based on current legislative discussion and actions. No bond elections are currently scheduled. Technology allotment funds are projected to be eliminated from the state budget.

The following technology recommendations were supported by the 2007-2008 Citizen Bond Committee:

- 1) Technology to refresh, replace, upgrade, and support existing inventory (\$17,386,000), network infrastructure upgrades (\$1,908,000), and expand/replace existing central systems (\$1,950,000).
- 2) Technology initiatives to expand the availability of technology for students, to enhance curriculum delivery and instruction (\$6,742,750), and district-wide special projects (\$1,050,000).
- 3) The input of the campus Instructional Technology Specialists was collected at monthly meetings and is reflected in the current conditions.
- 4) The District Executive Leadership Team provided direction regarding 1:1 initiatives, mobile devices, teacher workstations, data collection systems, and many more initiatives at multiple opportunities throughout the year.

Existing Conditions:

Teaching and Learning Statement

The traditional model of schooling with the teacher choosing what is to be learned and then serving as the source of knowledge as the student acts as the receiver of that knowledge is not adequate for 21st Century, world-class education. Roles of teacher and learner must continue to change. In the Digital Age the sheer volume of information means that Round Rock ISD students cannot be passive recipients of instruction; rather RRISD students must become active participants in the learning process. It is vitally important that students know how to be sure their sources are credible and that RRISD students gain skills for collaboratively constructing, using and communicating the knowledge they need for a chosen task, project, or other learning pursuit. Learning and teaching must focus on connecting to students' lives and reflect what research reveals about how people learn.

Information and communications technologies (ICT) empower learners to undertake authentic projects for learning and productivity even in the early grades. Technology makes possible the collaboration or diverse work and learning groups provide access to rich resources and expertise previously unavailable. Technology will enable student learning and productivity that will extend beyond the rigidity of the traditional school schedules.

No Child Left Behind, (NCLB) sets national goals to improve student academic achievement through the use of technology, ensure that all students become technologically literate by the end of the eighth grade, promote the effective integration of technology into on-going professional development, and advance research-based instruction through technology integrated curriculum development.

Summary of Existing "Teaching & Learning" Conditions

In RRISD, the technology deployment to the majority of classrooms is standardized. This approach has served the district well and has helped minimize the total cost of ownership to the school district for the technology equipment. A brief summary of the technology distribution accomplished to date follows:

- Each teacher has been provided with a personal computer, either a desktop computer or a notebook computer.
- All classrooms have a mounted projector, document camera, sound system and access to web-based multimedia resources, online textbooks, and web 2.0 tools along with district-provided and state-provided collaborative tools.
- All classrooms have a pull-down projection screen, typically in the center of the front wall.
- A phone connection and telephone with direct-inward-dial capability and voice mail has been installed in each classroom. Newer campuses have established VoIP in place of traditional telephone connections.
- High-speed Internet access is available on a minimum of two hard-wired drops in each classroom. A wireless system is available for all district-owned wireless devices. Guest access is available on a limited basis for student or visitor devices.
- Different configurations of portable carts for sharing across the campus are available based on campus size and instructional needs. (i.e. 10 wireless laptops, 16 wireless laptops, 24 wireless netbooks, and additional variations)
- Some classrooms have other digital technology items such as digital still cameras, video cameras, web cameras, student response devices, digital microscopes, and digital data collectors.
- Many school campuses have several portable interactive white boards available for check out from the school media center. Several campus have increased the number of interactive whiteboards and wireless slates available to classroom teachers. Title I schools have interactive white boards available to all 3rd, 4th, and 5th grade teachers. Some Title 1 campuses also have interactive whiteboards in 1st, 2nd, 6th, 7th, and 8th grade classrooms.
- Many school campuses have other digital technology items such as digital still cameras, video cameras, web cameras, student response devices, digital microscopes and digital data collectors available for check out from the school media center.
- Some schools have a small video studio from which they can broadcast daily announcements over the campus television network.
- During the 2005-2006 school year sixteen Intelligent Classrooms were created at the 4 Round Rock ISD high schools (one

classroom for math, science, social studies, and language arts at each high school). In the 2006-2007 school year, the number of HS Intelligent Classrooms was doubled to 32 and increased by 16 more classrooms for the 2007-2008 school year bringing the total number of intelligent classrooms to 48. In the 2008-2009 school year 32 more classrooms were added followed by an additional 16 in 2009-2010 bringing the total to 96 to complete the project.

Educator Preparation and Development Statement

Preparing teachers and administrators to effectively facilitate and manage 21st Century learning in technology and information rich settings involves radical retooling of the existing professional core of the educational system. Securing time, resources, and effective models for educator professional development presents a tremendous challenge to Round Rock ISD. Professional development carries the urgent charge of supporting the move from traditional schooling to 21st Century education. RRISD must prepare teachers for significantly different roles, different students, different tools, and different resources.

Summary of Existing "Educator Preparation & Development" Conditions

Currently, technology know-how, adoption, and integration are uneven across the district. Some educators are technology savvy and implement technology into their curriculum routinely. Others are more reluctant to infuse technology into their teaching efforts. Most often, the need to focus on the priority of TEKS and TAKS is cited as the reason for not integrating technology further into the curriculum.

According to the on-line survey, more than 90 percent of teachers responding either agreed or strongly agreed, "We would make more effective use of the technology that we already own if teachers had more time to prepare." Additionally, when answering the statement "We could make more effective use of the technology tools that we already own if teachers had more training about the best uses of the technology." more than 86 percent of teachers responding either agreed or strongly agreed!

An overwhelming majority of teachers believe they need more training about the best uses of technology. This training is conducted by the campus instructional technology specialist. In the 2010-2011 school year a total of 46 campus instructional technology specialists supported the staff. This number was considered inadequate by campuses that had to share an instructional technology specialist with another campus. This was due to staffing guidelines based on student enrollment.

The Professional Development department has been supportive in the increase of technology-related classes offered and in the integration of technology in all courses, regardless of content, during the summer professional development classes. The teaching staff continues to believe they need more time to prepare for technology integration.

Administrative and Support Services Statement

The support services provided to teachers and students comprise an essential portion of their overall school experience, and are inextricably linked to overall district objectives. There are or will be opportunities for productivity and other improvements in the administrative and support areas as technology continues to advance, become less expensive, and more capable.

Summary of Existing "Administrative & Support Services" Conditions

While much of this report focuses on instructional technology, it is essential to consider opportunities in related areas, as they can either positively or negatively contribute to the goal of creating safe and nurturing learning environments.

Infrastructure for Technology Statement

Infrastructure includes the 'back room' aspects of the technology systems. In general it includes the spaces, pathways, cabling, electronic equipment and services such as telephone or data. More specifically this category contains items such as, the wide area network (WAN), building backbone cabling, data switches, routers, telephone switch, the teledata service entrance facilities, incoming Internet access, teledata closets, wireless access points and the cabling to the classrooms and offices. The infrastructure allows you to communicate between computers on campus and across the school district. To more completely understand infrastructure it is important to understand the concept of projected life cycles related to the various aspects of the technology infrastructure of a building. Because of the dependence on technology, the impact that technology has on teaching effectiveness and the cost of implementation, it makes good sense to configure the facility with equipment life expectancies in mind. Life expectancy refers to the point at which the systems likely will fall victim to one of the following:

- * Changes in use - computer systems may be required to perform in ways never intended
- * Increased maintenance costs – Older equipment requires more frequent repairs and maintenance
- * Reduced reliability – System failures increase as the systems near the end of their life cycles
- * Obsolescence – Systems reach a point at which they cannot be effectively upgraded to new technology standards.

In educational environments building structures are designed to last approximately 40 to 60 years, which usually includes the buildings main technology equipment room. This room also supports the main service entrance and main distribution frame. Building teledata closets and the backbone cable pathways should be expected to perform for approximately 20 to 30 years.

Backbone cables should be expected to perform for roughly 15 to 25 years. The cabling from the teledata closet to the classroom or office should last from 10 to 15 years under normal conditions. Electronic equipment usually has life expectancies much less than the previous items. Telephone equipment is expected to last from 5 to 12 years, while data and desktop electronics are only 4 to 6 years.

These examples of projected life cycles help to design the technology items with greater flexibility, to develop refresh cycles for items such as computers, and to assist in the long range planning of various infrastructure components. With certain items like wireless devices, there is no point in trying to plan too far into the future regarding the access points, because equipment can become obsolete so quickly. However, the cabling and associated infrastructure needs to be sized and located to accommodate numerous generations of future wireless access points.

Summary of Existing "Infrastructure for Technology" Conditions

Currently the Round Rock Independent School District utilizes wireless laptop computers distributed on mobile carts. There are approximately 408 carts with 6,528 wireless notebook computers (i.e. 16 computers per cart). The carts incorporate a data switch and wireless access point. In addition to the notebook computers, there are over 10,000 desktop computers in use. The current computer refresh cycle is 5 years and the existing student/computer ratio is 2.63 to 1. There is a minimum of 2 data drops per classroom, which are all 1Gb. Ethernet from data electronics located in a teledata closet.

The WAN environment consists of redundant fiber ring distribution with high-speed segments. The distribution data switches consist of generally 100Mb/1Gb/10Gb devices.

Existing Strengths

- Round Rock Independent School District is fortunate to have an outstanding district wide area network upon which to build. The fiber backbone has an extensive coverage and the electronics supporting the WAN are excellent. The existing campus WAN cabling and equipment is sized to provide the school district with adequate information distribution for many years into the future. The capabilities far exceed existing and short-term needs.
- The Local Area Networks, within individual buildings, are adequate.
- In newer buildings the teledata spaces appear to be properly sized and equipped; the mechanical and electrical systems seem adequate to support the current needs.

Existing weaknesses

- The core of the network is the RRISD Technology Center.
- Teledata spaces in some older buildings are not sized properly, nor does it appear that adequate power quality and mechanical systems are present. This would include uninterruptible power supplies, surge protection and adequate grounding.
- WAN and LAN system monitoring equipment needs to be reviewed relative to its capabilities.
- Some existing file servers appear to have exceeded their useful lives.
- The existing network security should be upgraded to provide a greater level of protection.
- An inventory management system could be added to be able to better manage assets.
- Business continuity and backup facilities need to be enhanced.

Technology Needs:

Teaching and Learning

1. Establish a Technology Adoption Process

Objectives and Strategies: Round Rock ISD should formally embrace a Technology Adoption Process to provide a methodology for introducing technology innovations in a systematic way with reduced risk. The challenges include making the Technology Adoption Process mandatory, systematic, and easy to use. A typical adoption model contains the following six steps:

Vision - The creation of a technology vision. The initial idea of how a technology might be implemented to improve instruction or administration in a cost-effective manner.

Research and Analysis: Identification of hardware, software, or other technology, desired implementation approach, and expected impact.

Define Concept - The development of the learning concept, including the proposed technology architecture or configuration and the identification and creation of technology standards that support the technology vision.

Proof of Concept - Establish the model technology environment in a lab-type setting and test the model for appropriateness, effectiveness, practicality, etc. If the concept does not pass this phase, improve or change the concept or else discard it from further consideration.

Pilot Project - Implement the technology concept on a single or small number of campuses to ensure the required training, support, maintenance, management, and administration mechanisms and processes are established for the project. Evaluate district-wide implementation issues, migration strategies and funding sources.

District-wide Implementation - After any challenges are resolved during the pilot project stage, proceed to roll out the change to the entire district. Provide documentation, support, or training as needed to support the implementation.

2. Update Classroom Technology Standards

Objectives and Strategies: Identify minimum technology standards for all classrooms. Set timeline for accomplishment and track progress towards completion. Ensure interoperability among classrooms and standardization to facilitate teachers who change classrooms in becoming accustomed to new surroundings.

3. Recognition and Replication

Objectives and Strategies: Incorporate a recognition program to celebrate the accomplishment of staff members on campuses and at the district level. Encourage the replication of these accomplishments at other campuses

4. Daily Announcements Studios

Objectives and Strategies: Establish a standard technology and equipment package to outfit each school campus with an audiovisual "studio" from which to provide at least the school daily announcements. There are examples of this being done already within the district. Benchmark the excellent performers within the district and implement at all campuses. This fulfills a vital service within each school campus while providing valuable opportunities for students to be exposed to different types of technology hardware and software.

5. Technology Sustainment

Objectives and Strategies: There is an ongoing effort within RRISD to monitor the existing technology resources. The district should continue to sustain and refresh existing technology investments for classrooms as funding permits. Standardization of both hardware and software platforms should be implemented as much as possible. The continuous presence of technology tools allows teacher to rely on them being available when needed and enables better integration of technology into teaching and learning processes. A bar code inventory of computing assets should be established to enable efficient inventory management of hardware. A comprehensive inventory should be made at least once per year to ensure equipment accountability and to reconcile ownership records. A comprehensive "sustainment" program must include all items to be sustained. The bottom line of maintaining an inventory is having reliable and available technology tools appropriate to each classroom, and planning tools appropriate for the district, that will enable better curriculum integration efforts to occur and provide for more efficient technical support. Finally, consider expanding the existing on-line work request system for information technology requirements. A few of the multiple benefits from such a system include tracking and recording problem occurrences, faster problem resolution, trend identification and resolution, and factual technology resource reallocation.

6. Individual Computing Access

Objectives and Strategies: The exact scope and extent of future technology enhancements to district classrooms should be guided and informed. Using an approach such as this will ensure participatory standards development among district teaching and non-teaching staff, and should lead to an overall better-supported result. A popular balance between technology investments and curricular needs will result when the recommended tailored approach is implemented. The adoption of a 1:1 ratio of students to computers, either district-provided, or through bring your own device, is a strong district goal.

7. Storage and Security

Objectives and Strategies: Adopt a cloud solution for access to network documents 24/7 by students and staff. Provide a Child Internet Protection Act (CIPA) compliant filtering solution for district devices used out-of-district and for non-district devices used in the district.

8. Videoconferencing and Distance Learning

Objectives and Strategies: Ensure that each campus has access to videoconferencing solutions based on instructional needs, audience size, and the ability to receive and broadcast to other entities. The solution must be efficient and easily managed by campus staff allowing for virtual visits and collaborations with professionals and other schools, universities, museums, etc.

9. Teacher Work Stations

Objectives and Strategies: Provide desktop/laptop/mobile device solutions to staff to meet instructional and productivity needs. Expand the Dell Employee Purchase Program, which is slightly subsidized by benefiting from the purchasing power of the district.

10. Mobile Devices

Objectives and Strategies: Investigate the efforts and effectiveness of mobile device initiatives at other districts and universities. Identify a standard for district purchased devices and establish procedures for use of student owned devices in the district. Implement a method for tracking a student achievement with mobile devices.

11. Student Response Devices

Objectives and Strategies: Expand the use of student response devices in the classroom. Identify a standard for virtual response systems.

12. Student Digital Portfolios

Objectives and Strategies: Promote the use of student portfolios. Implement a method for ensuring student and parent access when students exit campus and district.

13. Digital Resources for Instruction

Expand the support and use of the district-provided learning management system (Moodle) and state-provided learning environment system (Project Share) to promote access to digital curriculum, online textbooks, digital media files, and to collaborate and share documents and lessons.

Educator Preparation & Development

1. Professional Development Program

Objectives and Strategies: Review the professional development program for all teaching staff. Identify individual career advancement objectives and link them to technology integration continuing education and training. Ask Principals to consider the Teacher STaR Chart results during staff planning and teacher evaluation. Continue to work collaboratively with Professional Development Department with efforts focused on technology integration. Develop and implement web-based and blended courses to meet the need for asynchronous training of state/district mandated compliance training, modeling of Web 2.0 instructional tools, point-of-need trainings, and follow-up or reinforcement training.

2. Digital Resources for Professional Development

Objectives and Strategies: Expand the use of the district-provided learning management system (Moodle) and state-provided learning environment system (Project Share) to promote access to digital curriculum and to collaborate and share documents and lessons.

3. Just-in-Time Technology Training at the Point-of-Need

Objectives and Strategies: Gather formal and informal data throughout the academic year to determine training needs and opportunities for technology integration and just-in-time training. Remain responsive throughout the academic year to providing the needed training as students' requirements are identified. It is a proven concept that just-in-time training results in improved retention, relevance, and impact over more traditional training delivery models.

4. Teacher Appraisals

Objectives and Strategies: Incorporate a technology component into the appraisal by collaboration (ABC) evaluation process. This would provide for better alignment of teacher performance appraisals with technology integration goals and would provide a means to recognize teachers' and principals' efforts to integrate technology into their curriculum. Ensure that annual TAKS testing, while critical, is not the only driver for performance, change, or recognition in the organization.

5. Knowledge Management and Model Lessons

Objectives and Strategies: Work collaboratively with the curriculum department to ensure that model lessons include technology components and are easily accessed through the Aligned Round Rock Curriculum in the learning management system (Moodle). Provide teachers an opportunity to share model lessons accessed through the learning management system.

6. Spotlight on Success

Objectives and Strategies: Establish a recurring public relations effort to identify and highlight examples of outstanding teacher-led technology integration successes. Publicize these examples through all available channels, both internal and external. Use in conjunction with a knowledge management database of shared experiences (both success stories and lessons learned).

Administrative & Support Services

1. Instructional Technology Specialists

Objectives and Strategies: The level of technology support available to teachers should be increased. A minimum of one instructional technology specialist per school is optimal. Use staffing guidelines to determine ratio of instructional technology specialists to student enrollment at campuses. Furthermore, require library and media center specialists to assume a greater role in supporting technology integration into the classroom. This group of people represents a district resource that may be able to further district strategic goals through skillful staff support and augmentation and collaboration with the campus instructional technology specialist.

2. Library Systems

Objectives and Strategies: Provide a solution for accessing school libraries after school hours. Increase access to and availability of online resources. Implement an eReader solution for digital content.

3. Smart Identification Cards

Objectives and Strategies: Implement a district-wide solution for a photo badge identification system for students and staff which syncs with the student and financial management systems. This system should allow for access to student/staff identification data, account balances for food services, loan items from library and media services, transportation usage, and other necessary data. Student identification cards with photos should be available to campus staff to assist in enhancing security and, ultimately, could be used as a component of a classroom attendance automation improvement effort. Campus leadership should be able to view photo and student information on a mobile device.

4. Communication and Outreach: Totally Connected Community

Objectives and Strategies: Adopt the vision for the Round Rock Independent School District as a district building a "totally connected community." With this vision, many supporting activities contribute to interconnecting the various component members of the community. For example, building relationships between school administrators and community members establishes a framework from which partnering opportunities can be explored. As a unifying concept, a "totally connected community" marks the vision of a future state that all community members can work together and strive to achieve.

5. Communication and Outreach: Parent Support Center

Objectives and Strategies: Expand the availability of technology and online access in the Parent Support Centers. Promote career and training opportunities for parents. (resume building, English acquisition, research, etc.)

6. Communication and Outreach: School and Teacher Web Sites

Objectives and Strategies: Implement an integrated district/campus/teacher website solution which encompasses district/campus/classroom news, calendars, schedules, assignments, home access center, etc. with single logon capability. Their children's information regardless of campus would be accessible with a single logon.

7. Communication and Outreach: Access to Student Data

Objectives and Strategies: Continue expanding access to student performance data. Increase the ease and accuracy of multifunction printers with formal and informal assessments. Expand the use of the assessment modules in the learning management system (Moodle).

8. Communication and Outreach: Student Access to Network

Objectives and Strategies: Continue to provide routine access to student assignments, notes, homework and project information by students when away from the school facility. Consider extending parent or guardian access privileges to this information.

9. Planning and Performance Data: Data Warehouse

Objectives and Strategies: Expand the data warehouse capability to enable rapid feedback to teachers on student performance. Focus on training the teachers through professional development efforts how to use it.

10. Planning and Performance Data: Teacher Feedback

Objectives and Strategies: Establish an ongoing feedback mechanism for teachers to discover what professional development opportunities and training teachers actually want to have. Keep the mechanism in place as needs and training requirements tend to evolve or are impacted by advancing technology capabilities. Consider an a la carte approach with teachers being provided the opportunity to selectively engage those opportunities that best suit their needs. Consider offering an anonymous feedback submittal method for teachers to use for issues that are not specific to their campus.

11. E-Rate

Objectives and Strategies: As long as federal support for the E-Rate subsidy program continues, Round Rock ISD should continue to submit for available funding subsidies.

Infrastructure for Technology

1. Data Networks

Objectives and Strategies: Data network trends point to a future where a universal IP based network extends throughout the globe and supports nearly every communication message format imaginable. Round Rock Independent School District needs to ensure all of its information technology actions will help it move systematically and incrementally in that direction.

2. Wireless Network Access

Objectives and Strategies: Improve wireless access for all school campuses. This approach would include upgrades to the closet data switches to allow for the additional data drops. Then, new cabling will need to be installed to locations where wireless access points will be installed. After these new drops are installed the selection of appropriate access point devices should be made. This will allow the school district to purchase the most up-to-date equipment. Finally, to address the security and usage issues a wireless security policy or procedure should be established.

3. Wireless Remote Access

Objectives and Strategies: Continue to monitor the progress in this technical area and anticipate future wireless connectivity. The investment in the wireless devices should decrease the need for more costly pathways and cabling.

4. LAN Cabling

Objectives and Strategies: Additional Cat 6 cabling should be installed as needed. In addition, a plan should be developed to migrate the cabling toward the new Cat 6 standard. This will provide additional bandwidth capabilities.

5. LAN Equipment

Objectives and Strategies: Purchase and install additional data switches and possibly routers as needed. Continue to monitor LAN performance and upgrade as needed.

6. WAN Equipment

Objectives and Strategies: To provide increased or improved WAN access and meet evolving requirements, additional hardware and software should be purchased and installed as needed.

7. File Servers

Objectives and Strategies: Upgrade and expand file servers as needed.

8. Software Applications

Objectives and Strategies: Continue to reserve funds for upgrading software applications. Upgrade applications as needed.

9. Data Storage

Objectives and Strategies: To take advantage of the installed high speed LAN and WAN capabilities, expand the SAN environment. Seek to offer services through strategic partnerships with other non-profit or governmental agencies to help recoup the expenses and/or offset operating costs.

10. Disaster Recovery and Business Continuity Program

Objectives and Strategies: The first step is to perform a site assessment including risk analysis and utility availability. The possibility and severity of applicable disasters such as tornado, fire, or a transportation accident must be evaluated. The availability of reliable electric service (possibly redundant) must be evaluated. Further, the need for some type of alternative fuel source such as natural gas or fuel cell should be considered. The availability of redundant high-speed data/voice service must also be considered. Finally, exterior physical security, accessibility and proximity to transportation and relevant Round Rock ISD personnel should be taken into consideration. The plan should identify threats, vulnerabilities, statistics, security measures, sensitive areas and security level desired. The plan should also address the need for training and testing.

From the plan, comprehensive emergency procedures and response procedures should be developed. The plan should also address the need for monitoring devices, lighting, barriers, and access control.

To ensure data reliability, regularly scheduled electronic vaulting of critical data to another site should be considered, along with off-site storage of tapes, clustering of servers, disk mirroring and RAID 5 disk drives.

A detailed business continuity plan should be developed to support continuous operation of the school district in the event of a disaster.

11. Digitize Information

Objectives and Strategies: Continue to strive for the conversion of paper information to a digital format wherever possible. Purchase equipment or services, and allocate man-hours to accomplish this task.

12. Technology Infrastructure Refreshment

Objectives and Strategies: Continue to monitor infrastructure elements. Reserve funds for replacement items and upgrade or replace as needed.

13. Adopt School Interoperability Framework Standards

Objectives and Strategies: Adopt the School Interoperability Framework (SIF) standards as district policy. Sustain compliance where it currently exists. Create a long-range plan to migrate into full compliance with SIF standards.

14. Strategic Partnering Opportunities

Objectives and Strategies: Continue to research the demand for additional WAN partners, such as Brushy Creek MUD. Develop relationships with the local broadband distribution entity and the Internet 2 access organization.

15. Video Production and Distribution Capabilities

Objectives and Strategies: Plans should be developed to support the types of video production that will be most beneficial to the teachers and other stakeholders. There may be a need for the teachers to better understand what is available to them, to identify their needs and to incorporate those items into their training plans. The high demand programs should be produced and distributed by the district. The existing IPTV equipment should be configured and utilized to the fullest.

16. Cable Access Channel

Objectives and Strategies: Fully implement the available local access channel for Round Rock ISD. Proceed with the Time Warner Cable proposal to provide sufficient coverage for the west-side of RRISD.

17. Security – Surveillance

Objectives and Strategies: Develop a district-wide Security Plan and coordinate the electronic security surveillance system with it. Within the Security Plan adopt a district policy regarding the provisioning of video security surveillance. All school facilities should be evaluated for the need to have video surveillance equipment installed.

18. Security - Access Control

Objectives and Strategies: The existing DSX system should continue to be utilized for access control throughout the school district. Continue to monitor security hardware and software advancements and consider additional systems when or where warranted.

19. Security - Inventory Control

Objectives and Strategies: An RFID security plan should be developed to adequately monitor the computers and other high value equipment assets within the school district.

20. Telecommunications Closets

Objectives and Strategies: As RRISD is continuing to construct new school facilities and renovate existing schools, it is both appropriate and timely that the district's design standards be updated to reflect current thinking concerning the role of technology in education. For example, a campus with full wireless access throughout the facility will need enhanced power capacity to support widespread deployment of these devices. Wireless access points are typically fed power over the Cat 6 Ethernet cabling. The backbone cabling and pathways should be included in the TC standards.

It is recommended that Telecommunication Closets standards be developed to ensure that the data electronic equipment and associated cabling is provided in a safe, reliable and accessible location. These standards should address issues such as the location, number of square feet supported, and proximity to electrical and mechanical systems or equipment.

21. Telephone Systems

Objectives and Strategies: Plans should be developed to phase in a new telephone switch. The plan should take into consideration the features and benefits of integrating into the data network. Reliability, serviceability and expandability should be considered in the plan. While the current phone system capabilities are adequate for today's needs, the district should prepare a long-range plan for converging the phone system into the communications network. Consider the age, capacity, and expected economic life of existing telephone public exchange equipment in determining the rate and order of transition. Bond funds will need to be available in order to expand the existing PBX to provide better disaster recovery and phone service to any new campuses.

Goals, Objectives, and Strategies

GOAL 1: Improve student academic achievement, including technology literacy, for all students.					
OBJECTIVE 1.1: Improve student academic achievement to meet the Texas Essential Knowledge and Skills (TEKS) by using technology. <i>Budget Amount \$100,000.00</i> <i>LRPT category: Teaching and Learning</i> E-Rate Correlates: ER01, ER02 NCLB Correlates: 01, 02, 05, 06, 07, 08					
Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
1.1.1:	Provide students with the opportunity to work collaboratively in communities of inquiry to solve problems and communicate with a variety of audiences. LEA LRPT Correlates: TL05, TL09, TL13	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instruction Support Services, Instruction Technology Specialists, Curriculum Specialists	Collaborative groups in Moodle and Project Share in the future.
1.1.2:	Use distance learning and/or digital content services for expanding curricular offerings and meeting the needs of all students, ensure each campus has videoconferencing capability, implement a solution for storing curriculum reference materials (or i.e. Moodle and Project Share). LEA LRPT Correlates: LAS15, TL05, TL08, TL09, TL10, TL11, TL12, TL13	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists, Curriculum Specialists	Updated video conference facilities at each RRISD high school; a centralized curriculum storage server is implemented.
1.1.3:	Provide on-demand access by staff and students to the best available technologies, including digital content in classrooms, libraries, and other appropriate instructional areas. LEA LRPT Correlates: TL08, TL09, TL10, TL11, TL12, TL13	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists, Curriculum Specialists	Resources will be identified in the appropriate areas of the Aligned Round Rock Curriculum.
1.1.4:	Provide technology solutions to achieve greater levels of collaboration, inquiry, analysis, creativity and content production. Refine the Technology Adoption Process to provide a methodology for introducing technology innovations in a systematic way. LEA LRPT Correlates: TL01, TL02, TL03, TL05, TL08, TL09, TL10, TL11, TL12, TL13	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists, Curriculum Specialists	Formalize the Technology Adoption Process; online software approval list.

1.1.5:	Integrate student performance data from district/state assessment instruments with electronic curriculum resources to inform and differentiate instruction for every child. LEA LRPT Correlates: TL07	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, School Improvement, Instructional Technology	Review purchase procedures for Response to Intervention solutions and effectiveness of instructional software purchased with M Contract; implementation of E2020 at high school campuses, RROC, and Success programs; and review continued use of AimsWeb K-8
OBJECTIVE 1.2: Ensure the achievement of student's technology proficiencies according to the benchmarks for Technology Applications TEKS. <i>Budget Amount \$50,000.00</i> <i>LRPT category: Teaching and Learning</i> E-Rate Correlates: ER01, ER02 NCLB Correlates: 01, 02, 08, 11					
Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
1.2.1:	Create and share lessons for integrating technology into content areas. Create digital student-portfolios. Monitor the effectiveness of mobile devices. LEA LRPT Correlates: TL01, TL02, TL03, TL13	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists, Curriculum Specialists	Collaborative groups in Project Share and shared lessons in Moodle.
1.2.2:	Incorporate expectations for educators' and students' technology proficiencies from the STaR Chart into campus plans. LEA LRPT Correlates: TL04, TL09	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists, Curriculum Specialists	Results of completed Teacher and Campus STaR Charts; Campus plans.
1.2.3:	Develop strategies to monitor and document progress of integration of technology into curricula and instruction and to monitor and report student mastery of the Technology Applications TEKS to TEA. LEA LRPT Correlates: TL06	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Executive Director Information Services, Director Instructional Technology	Reports indicating student master of TEKS at 8th grade level.
1.2.4:	Provide curriculum to ensure personal safety for students in a digital world and AUP policies that specify expectations for student, parents, and teachers. LEA LRPT Correlates: TL14	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Instructional Technology Specialists	District Policy CQ, Student Handbook, and AUP compliance training for teachers, Cybersafety website

GOAL 2: Integrate technology into teaching and learning in all curriculum areas.					
OBJECTIVE 2.1: Ensure accessibility by all students to technology-enriched instruction and to include adaptive/assistive devices, as appropriate. <i>Budget Amount \$1,000,000.00</i> <i>LRPT category: Leadership, Administration and Support</i> E-Rate Correlates: ER01, ER02 NCLB Correlates: 03, 04a, 07					
Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
2.1.1:	Identify minimum technology standards for all classrooms. LEA LRPT Correlates: I01, I03	State: Original Status: In Progress	July 1, 2008 to October 31, 2011	Assistant Superintendent Instructional Support Services, Information Services	A technology standard for all RRISD classrooms will be created.
2.1.2:	Establish a standard technology and equipment package to outfit each school with an audiovisual "studio" from which to provide the school daily announcements and opportunities to create public announcements and videos. LEA LRPT Correlates: TL13	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists	A audiovisual broadcast studio will be created on each RRISD campus.
OBJECTIVE 2.2: Provide incentives to teachers for using new effective models, tools, and resources for teaching and learning. <i>Budget Amount \$100,000.00</i> <i>LRPT category: Teaching and Learning</i> E-Rate Correlates: ER01 NCLB Correlates: 03, 04a, 07					
Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
2.2.1:	Establish district and campus technology recognition forum to promote and encourage replication of successful initiatives. LEA LRPT Correlates: I02	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists	Campus and district recognition blogs, websites, and embedded tools/applications

GOAL 3: Acquire and maintain computer workstations and other technologies.					
OBJECTIVE 3.1: Provide on-demand access for every student to computer workstations and/or the best available technologies (I04; I05) <i>Budget Amount \$3,500,000.00</i> <i>LRPT category: Teaching and Learning</i> E-Rate Correlates: ER01 NCLB Correlates: 05, 06, 12					
Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
3.1.1:	Expand the technology available to high school students. Increase the number of notebook and netbook computers available to high school students. LEA LRPT Correlates: I04, I05	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists	Improved student to computer ratios at high school campuses
3.1.2:	Expand the technology available to middle school students. Increase the number of notebook and netbook computers available to middle school students LEA LRPT Correlates: I04, I05	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists	Improved student to computer ratios at middle school campuses
3.1.3:	Expand the technology available to elementary school students. Increase the number of notebook and netbook computers available to elementary school students. LEA LRPT Correlates: I04, I05	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists	Improved student to computer ratio at elementary campuses
3.1.4:	Provide student and teacher access to peripheral technology equipment such as video conferencing equipment, digital cameras, digital microscopes, white boards for annotations, document cameras, electronic slates, etc. Update classroom technology standards LEA LRPT Correlates: I04, I05, I09	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists	Create classroom technology standards and complete campus checklist.
OBJECTIVE 3.2: Meet the technology equipment target of professional educational staff to workstation ratio of 1:1 to ensure that access is available. <i>Budget Amount \$25,000.00</i> <i>LRPT category: Teaching and Learning</i> E-Rate Correlates: ER01 NCLB Correlates: 05, 06, 12					
Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
3.2.1:	Provide desktop / laptop/ mobile device solution to staff to meet	State: Original	July 1, 2011 to	Assistant Superintendent	All teachers have access to a desktop

	instructional and productivity needs. LEA LRPT Correlates: I04, I05	Status: In Progress	June 30, 2014	Instructional Support Services, Instructional Technology Specialists	PC / laptop / mobile device
3.2.2:	Continue to provide district staff with the option of purchasing computers from the Dell Employee Purchase Program. LEA LRPT Correlates: I02	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	Announcements of Dell EPP to RRISD staff in August, November, and April.

OBJECTIVE 3.3:

Provide access to appropriately configured workstations to all students and staff in libraries, school offices, and in other work areas, ensuring accessibility for disabled students and staff as required by ADA.

Budget Amount \$100,000.00

LRPT category: Teaching and Learning

E-Rate Correlates: ER01

NCLB Correlates: 05, 06, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
3.3.1:	Create equipment lists for elementary, middle school, and high school campuses to ensure that appropriately configured workstations are available to students and staff in libraries, school offices, and in other work areas. LEA LRPT Correlates: I04, I05, I07	State: Original Status: Completed	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists	Completed campus checklists.

OBJECTIVE 3.4:

Replace or reposition obsolete technology and infrastructure on a 5-year schedule to ensure maximum efficiency and use.

Budget Amount \$2,000,000.00

LRPT category: Teaching and Learning

E-Rate Correlates: ER01

NCLB Correlates: 05, 06, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
3.4.1:	Continue to sustain and refresh existing technology investments for classrooms as funding permits. LEA LRPT Correlates: I07	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services, Instructional Technology Specialists	Completed "refresh" cycles
3.4.2:	Implement a bar code inventory of computer assets to enable efficient inventory management of hardware. LEA LRPT Correlates: I01	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Executive Director Information Services	Completed inventory of computer assets.

OBJECTIVE 3.5:

Develop a technology maintenance plan that would provide sufficient support staff.

Budget Amount \$90,000.00

LRPT category: Teaching and Learning

E-Rate Correlates: ER01 NCLB Correlates: 05, 06, 12					
<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
3.5.1:	<p>Determine an effective computer to computer technician ratio and staff appropriately.</p> <p>Comments: Ratio is 600:1 for computers to technical support staff and 3000:1 for students to instructional support staff.</p> <p>LEA LRPT Correlates: I01</p>	<p>State: Original</p> <p>Status: In Progress</p>	July 1, 2011 to June 30, 2014	Executive Director Information Services	Technical Operations department is staff appropriately.

GOAL 4: Ensure the effective use of technology to promote parental involvement and increase communication with parents.					
OBJECTIVE 4.1: Identify and communicate technology "best practices" to the community. <i>Budget Amount \$25,000.00</i> <i>LRPT category: Teaching and Learning</i> E-Rate Correlates: ER01 NCLB Correlates: 09					
<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
4.1.1:	Promote student/staff participation and parental involvement in the district technology recognition efforts. LEA LRPT Correlates: I08	State: Revised Status: In Progress	July 1, 2011 to June 30, 2014	Director Instructional Technology	District and campus recognition forums
OBJECTIVE 4.2: Use distance learning and/or digital services to provide information about education to parents and community members. <i>Budget Amount \$10,000.00</i> <i>LRPT category: Teaching and Learning</i> E-Rate Correlates: ER01 NCLB Correlates: 09					
<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
4.2.1:	Expand information and services available through the RRISD web site. LEA LRPT Correlates: I08, TL15	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	RRISD Web Team	Checklist of improvements to the RRISD web site
4.2.2:	Expand information available through the cable access channel. LEA LRPT Correlates: I08, TL15	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	Cable access channel schedule of events
4.2.3:	Include community input in the planning and support for the integration of technology into teaching and learning. LEA LRPT Correlates: LAS07	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Director Instructional Technology, and Executive Director Information Services	Community involvement, parent summit
OBJECTIVE 4.3: Provide parent and other community member access to school information and educational resources (i.e. Home Access Center, Parent Connect, etc.) <i>Budget Amount \$100,000.00</i> <i>LRPT category: Teaching and Learning</i> E-Rate Correlates: ER01 NCLB Correlates: 09					

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
4.3.1: Initiate and implement policies regarding parental and community access to student and district data/information. LEA LRPT Correlates: I08, LAS09, LAS11, TL15	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	Policies adopted by RRISD Board of Trustees
4.3.2: Implement a plan for teachers to create and maintain class web pages. LEA LRPT Correlates: TL16	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists	Teacher websites

OBJECTIVE 4.4:

Develop adult literacy programs, where applicable, in collaboration with adult literacy providers to maximize the use of technology.

Budget Amount \$10,000.00

LRPT category: Teaching and Learning

E-Rate Correlates: ER01

NCLB Correlates: 10

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
4.4.1: Provide community education programs through the Round Rock Community Education Department. LEA LRPT Correlates: LAS13	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Round Rock Community Education	Round Rock Community Education Department schedule of classes for Fall, Spring, and Summer
4.4.2: Participate in collaboration with representatives from PreK-12, higher education, parents, businesses and community to share resources and services. LEA LRPT Correlates: LAS13	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services	Interlocal Agreements in place

GOAL 5: Provide ongoing professional development for teachers, principals, administrators, and school library media personnel that aligns with SBEC Technology Applications standards.

OBJECTIVE 5.1:

Provide professional development for integrating Technology Applications into all TEKS.

Budget Amount \$50,000.00

LRPT category: Educator Preparation and Development

E-Rate Correlates: ER02

NCLB Correlates: 01, 03, 04b

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
<p>5.1.1: Provide just-in-time training at the point of need to teachers on uses and capabilities of available technology hardware and software. Survey teachers to determine technology training needs. Use the survey results to identify training resources. Use the Instructional Technology Specialists support structure to provide just-in-time training to teachers.</p> <p>LEA LRPT Correlates: EP01</p>	<p>State: Original</p> <p>Status: In Progress</p>	<p>July 1, 2011 to June 30, 2014</p>	<p>Assistant Superintendent Instructional Support Services, Instructional Technology Specialists</p>	<p>List of technology staff development offerings available on-line.</p>
<p>5.1.2: Reevaluate the model for staffing the Instructional Technology Specialists.</p> <p>LEA LRPT Correlates: LAS10</p>	<p>State: Original</p> <p>Status: In Progress</p>	<p>July 1, 2011 to June 30, 2014</p>	<p>Assistant Superintendent Instructional Support Services, Executive Director Information Services, Integration Technology Specialists</p>	<p>Current staffing guidelines</p>
<p>5.1.3: Provide professional development for Technology Applications courses as identified in SBEC Technology Applications VI - XI.</p> <p>LEA LRPT Correlates: EP02</p>	<p>State: Original</p> <p>Status: Planned</p>	<p>July 1, 2011 to June 30, 2014</p>	<p>Director Instructional Technology, Professional Development Department, Technology Integration Specialists</p>	<p>Professional development attendance records</p>
<p>5.1.4: Encourage participation in statewide technology professional development opportunities.</p> <p>LEA LRPT Correlates: EP06</p>	<p>State: Original</p> <p>Status: In Progress</p>	<p>July 1, 2011 to June 30, 2014</p>	<p>Director Instructional Technology</p>	<p>Participation in TCEA and other statewide events, Project Share Groups/Corners</p>
<p>5.1.5: Encourage educator participation in the Master Technology Teacher program.</p> <p>LEA LRPT Correlates: EP07</p>	<p>State: Original</p> <p>Status: Planned</p>	<p>July 1, 2011 to June 30, 2014</p>	<p>Director Instructional Technology, Technology Integration Specialists</p>	<p>Number of Master Technology Teachers</p>

OBJECTIVE 5.2:

Provide opportunities, incentives, and support for educators to develop and share model practices in the integration of teaching, learning and technology.

Budget Amount \$75,000.00

LRPT category: Educator Preparation and Development

E-Rate Correlates: ER02

NCLB Correlates: 01, 03, 04b

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
5.2.1: Use the district and campus technology recognition forum as an incentive to encourage educators to develop and share model practices in technology integration. LEA LRPT Correlates: EP05	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists	Campus and district recognition blogs, websites, and embedded tools/applications, Project Share, Moodle
5.2.2: Develop a plan to share and communicate model practices to all teachers in the district. LEA LRPT Correlates: TL13	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists, Curriculum Specialists	Model lessons accessed through the Aligned Round Rock Curriculum in the learning management system (Moodle).

OBJECTIVE 5.3:

Provide and assess professional development for integrating technology into teaching and learning, instructional management, and administration.

Budget Amount \$10,000.00

LRPT category: Educator Preparation and Development

E-Rate Correlates: ER02

NCLB Correlates: 01, 03, 04a, 04b

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
5.3.1: Provide professional development for integrating technology into teaching and learning, instructional management, and administration. LEA LRPT Correlates: LAS12	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists, Curriculum Specialists	List of staff development opportunities available to staff.
5.3.2: Coordinate the use of electronic data in district planning to support research-based decision-making focused on student success. LEA LRPT Correlates: LAS08	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendents for Instruction, campus principals	Use of Data Warehouse, Teacher Portal, and Multi-Function Printers.

OBJECTIVE 5.4:

Incorporate technology use into the appraisal system, where appropriate.

Budget Amount \$5,000.00

LRPT category: Educator Preparation and Development

E-Rate Correlates: ER02

NCLB Correlates: 01, 03, 04a, 11

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
5.4.1: Provide for alignment of teacher performance appraisals to fairly account for their efforts to integrate technology into their curriculum. LEA LRPT Correlates: LAS12	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists, Curriculum Specialists	Technology integration will be a part of the teacher performance appraisal process.
5.4.2: Establish a recurring feedback mechanism to efficiently capture teacher experiences or	State: Original	July 1, 2011 to June 30,	Assistant Superintendent Instructional Support	Feedback mechanism is identified and in place.

	recommendations regarding technology integration successes and lessons learned. LEA LRPT Correlates: TL13	Status: In Progress	2014	Services, Instructional Technology Specialists, Curriculum Specialists	
5.4.3:	Continue building the knowledge database of shared experiences designed to benefit the teaching staff and help reduce administrative burdens. LEA LRPT Correlates: TL13	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists, Curriculum Specialists	Knowledge database is fully implemented.

GOAL 6: Support the transformation of the teaching process by promoting student-centered learning within communities of inquiry.					
OBJECTIVE 6.1: Include the creation of core curriculum, student-centered, multi-media projects in educator professional development. <i>Budget Amount \$25,000.00</i> <i>LRPT category: Educator Preparation and Development</i> E-Rate Correlates: ER02 NCLB Correlates: 01, 03, 04a, 04b					
Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
6.1.1:	Include the creation of core curriculum, student-centered, multi-media projects in educator professional development. LEA LRPT Correlates: EP08	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists, Curriculum Specialists	District face-to-face, web-based, and blended professional development
OBJECTIVE 6.2: Provide flexible access to electronic resources for teachers so that research skills using technology can be used at the point of need. <i>Budget Amount \$25,000.00</i> <i>LRPT category: Educator Preparation and Development</i> E-Rate Correlates: ER02 NCLB Correlates: 01, 03, 04a					
Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
6.2.1:	Develop a district-wide portal strategy for providing access to district-wide subscription databases. LEA LRPT Correlates: EP04	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Instructional Technology Specialists, Curriculum Specialists, librarians	Access to district-wide subscription databases is accessed from a web portal.
OBJECTIVE 6.3: Offer professional development to educators by distance learning, distributed learning, and through digital content services. <i>Budget Amount \$100,000.00</i> <i>LRPT category: Educator Preparation and Development</i> E-Rate Correlates: ER02 NCLB Correlates: 01, 03, 04b					
Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
6.3.1:	Support the use of Project Share as professional development tool. Expand the use of Moodle as a delivery tool for district created web-based and blended professional development. LEA LRPT Correlates: EP08, LAS14	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Technology Integration Specialists	Web based courses, modules and assessments will be available to RRISD staff.
6.3.2:	Offer embedded staff	State:	July 1,	Assistant Superintendent	Professional

	development through collaborative teachers. LEA LRPT Correlates: EP09	Original Status: In Progress	2011 to June 30, 2014	Instructional Support Services, Professional Development	development on-line catalogs.
OBJECTIVE 6.4: Provide training in data examination and analysis through technology. <i>Budget Amount \$15,000.00</i> <i>LRPT category: Educator Preparation and Development</i> E-Rate Correlates: ER02 NCLB Correlates: 01, 03, 04b					
Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
6.4.1:	Provide training in data examination and analysis through technology. LEA LRPT Correlates: EP03	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Assistant Superintendents for Instruction	Staff development schedules.

GOAL 7: Provide for a sufficient budget to acquire and maintain hardware, software, and other services.					
OBJECTIVE 7.1: Identify the type and costs of technologies to be acquired including services, software, and digital curricula, and specific provisions for interoperability among components of such technologies. <i>Budget Amount \$5,000.00</i> <i>LRPT category: Leadership, Administration and Support</i> E-Rate Correlates: ER01 NCLB Correlates: 11, 12					
<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
7.1.1:	Create a district technology advisory committee to set hardware standards and to create a district approved list of software. LEA LRPT Correlates: LAS01, LAS02, LAS03	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Executive Director Information Services	List of Technology Advisory Committee members and meeting schedule.
7.1.2:	Adopt an interoperability framework (i.e. SIF, SCORM, IMS Global, etc.). LEA LRPT Correlates: LAS01, LAS02, LAS03	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	Information is included in district administrative regulations and procedures.
7.1.3:	Continue to focus on the Total Cost of Ownership (TCO) precepts. LEA LRPT Correlates: LAS01, LAS02, LAS03	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	Information is included in district administrative regulations and procedures.
OBJECTIVE 7.2: Identify how activities carried out with federal funds will be coordinated with funds available from other federal, state, and local sources. <i>Budget Amount \$5,000.00</i> <i>LRPT category: Leadership, Administration and Support</i> E-Rate Correlates: ER01 NCLB Correlates: 05, 06, 11					
<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
7.2.1:	Budget managers from the following areas with coordinate expenditures of technology funds: - Special Programs (Title funds) - Special Education - Career & Technology Education - Technology Allotment Funds - Bond Funds LEA LRPT Correlates: LAS02	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Executive Director Information Services	Regular meeting schedule
OBJECTIVE 7.3: Identify supporting resources (such as services, software, other electronically delivered learning materials, and print resources) that will be acquired to ensure successful and effective uses of technology. <i>Budget Amount \$5,000.00</i> <i>LRPT category: Leadership, Administration and Support</i>					

E-Rate Correlates: ER01 NCLB Correlates: 05, 06, 11, 12					
<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
7.3.1:	Create a district technology advisory committee to set hardware standards and to create a district approved list of software. LEA LRPT Correlates: LAS01, LAS02	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Executive Director Information Services	Technology Advisory Committee meeting agendas and minutes.

GOAL 8: Maintain a telecommunications infrastructure to ensure equitable access to network resources for all campuses and the community.

OBJECTIVE 8.1:

Provide high-speed access to the Internet for all students and staff.

Budget Amount \$90,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01

NCLB Correlates: 05, 12

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
8.1.1: Extend Internet access to include resources available through Internet 2. LEA LRPT Correlates: I06	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Executive Director Information Services	Internet 2 resources are available to RRISD staff and students.

OBJECTIVE 8.2:

Provide upgrades to the campus local area networks and the district wide area network.

Budget Amount \$3,500,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01

NCLB Correlates: 05, 06, 12

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
8.2.1: Expand wireless access throughout each campus. LEA LRPT Correlates: I01, I06	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Executive Director Information Services	Wireless access points are distributed and fixed on each RRISD campus.
8.2.2: Provide additional voice, data, and video cabling as needed. LEA LRPT Correlates: I01	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	Completed campus work order requests.
8.2.3: Upgrade video equipment to new video standards. LEA LRPT Correlates: I01	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Executive Director Information Services	Campus upgrades for new high definition requirements are completed.
8.2.4: Upgrade LAN equipment as necessary. LEA LRPT Correlates: I01	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	Completed work order requests.
8.2.5: Upgrade WAN equipment as necessary. LEA LRPT Correlates: I06	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	Completed work order requests.

OBJECTIVE 8.3:

Install, maintain, and enhance central technology systems.

Budget Amount \$3,000,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01
NCLB Correlates: 03, 05, 06, 07, 08, 12

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
8.3.1: Prepare a long-range plan for converging the phone system into the data communication network. LEA LRPT Correlates: I06	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	Implementation Plan
8.3.2: Upgrade district-wide file servers. LEA LRPT Correlates: I01	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	File server replacement schedule
8.3.3: Upgrade network and data security systems. LEA LRPT Correlates: I01	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	Network Connectivity Diagrams
8.3.4: Upgrade video production and distribution facilities. LEA LRPT Correlates: I01	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Executive Director Information Services	Video production schedule
8.3.5: Enhance district-wide software applications. LEA LRPT Correlates: I09	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	Software enhancement schedule.
8.3.6: Provide a large storage area network solution (SAN). LEA LRPT Correlates: I01	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	SAN solution is in place

OBJECTIVE 8.4:

Improve disaster recovery capability.

Budget Amount \$500,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01
NCLB Correlates: 12

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
8.4.1: Create a disaster recovery plan. LEA LRPT Correlates: I01	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Executive Director Information Services	Disaster Recovery Plan is created and implemented.
8.4.2: Perform a disaster recovery simulation. LEA LRPT Correlates: I01	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Executive Director Information Services	Disaster recovery simulation is conducted annually.
8.4.3: Develop a plan to digitize all RRISD records. LEA LRPT Correlates: I09	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Executive Director Information Services	A digital image plan is created.

OBJECTIVE 8.5:

Seek external funding for maintaining and upgrading the technology infrastructure.

Budget Amount \$5,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01

NCLB Correlates: 06

<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
8.5.1:	File for E-rate funding. LEA LRPT Correlates: LAS04	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	Forms 470 and 471 completed and files with SLD.
8.5.2:	Seek external grants. LEA LRPT Correlates: I02	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	Completed grant applications.
8.5.3:	Create partnerships with other governmental entities such as: City of Round Rock and Texas State University. LEA LRPT Correlates: I02	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Executive Director Information Services	Approved Interlocal Agreements.
8.5.4:	Build community support for future technology bond elections. LEA LRPT Correlates: I08	State: Original Status: In Progress	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services, Executive Director Information Services	Successful bond election with provisions for technology projects.

OBJECTIVE 8.6:

Seek strategic partnerships with public and private entities.

Budget Amount \$250,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01

NCLB Correlates: 06, 10, 12

<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
8.6.1:	Work with the City of Round Rock to create a district cable access channel for the east-side of the district. LEA LRPT Correlates: I02	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Executive Director Information Services	RRISD cable access channel available in the City of Round Rock.
8.6.2:	Work with the City of Austin & Time Warner Cable to create a district cable access channel for the west-side of the district. LEA LRPT Correlates: I02	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Executive Director Information Services	RRISD cable access channel available in the City of Austin.

GOAL 9: Utilize the district technology plan to ensure technology resources to promote student achievement.					
OBJECTIVE 9.1: Utilize the district technology plan to ensure technology resources to promote student achievement in accordance with NCLB. <i>Budget Amount \$10,000.00</i> <i>LRPT category: Leadership, Administration and Support</i> E-Rate Correlates: ER01 NCLB Correlates: 06, 11, 12					
<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
9.1.1:	Allocate at least 30% of technology allotment budget for professional development. LEA LRPT Correlates: LAS05, LAS06	State: Original Status: Planned	July 1, 2011 to June 30, 2014	Assistant Superintendent Instructional Support Services and Executive Director Information Services	Budget documents

Budget

Total amount of Title II, Part D formula funds received for the current year of this plan: \$0.00

Method of application for formula funds: Local Application

Budget year 2011		
Budget item	Cost	Funding Sources with amount per source
Staff Development	\$25,000.00	Round Rock ISD is not projecting to receive any Title II, Part D funds. Technology Allotment funds are projected to be cut in the state budget. Only local funds will be available for technology professional development.
Telecommunications & Internet Access	\$300,000.00	\$100,000 E-rate (Telecommunications) \$50,000 E-rate(Internet Access) \$150,000 Local Funds
Materials & Supplies	\$375,000.00	Local Funds
Equipment	\$3,285,000.00	2006 & 2008 Bond Funds
Maintenance	\$1,000,000.00	Local Funds
Miscellaneous Expenses	\$200,000.00	Local Funds
Total	\$5,185,000.00	

Budget year 2012		
Budget item	Cost	Funding Sources with amount per source
Staff Development	\$25,000.00	Round Rock ISD is not projecting to receive any Title II, Part D funds. Technology Allotment funds are projected to be cut in the state budget. Only local funds will be available for technology professional development.
Telecommunications & Internet Access	\$300,000.00	\$100,000 E-rate (Telecommunications) \$50,000 E-rate(Internet Access) \$150,000 Local Funds
Materials & Supplies	\$375,000.00	These funds would be dependent on a future bond election or the transfer of funds from fund balance.
Equipment	\$3,000,000.00	These funds would be dependent on a future bond election or the transfer of funds from fund balance.
Maintenance	\$1,000,000.00	These funds would be dependent on a future bond election or the transfer of funds from fund balance.
Miscellaneous Expenses	\$200,000.00	These funds would be dependent on a future bond election or the transfer of funds from fund balance.
Total	\$4,900,000.00	

Budget year 2013		
Budget item	Cost	Funding Sources with amount per source
Staff Development	\$25,000.00	Round Rock ISD is not projecting to receive any Title II, Part D funds. Technology Allotment funds are projected to be cut in the state budget. Only local funds will be available for technology professional development.
Telecommunications & Internet Access	\$300,000.00	\$100,000 E-rate (Telecommunications) \$50,000 E-rate(Internet Access) \$150,000 Local Funds

Materials & Supplies	\$375,000.00	These funds would be dependent on a future bond election or the transfer of funds from fund balance.
Equipment	\$3,000,000.00	These funds would be dependent on a future bond election or the transfer of funds from fund balance.
Maintenance	\$1,000,000.00	These funds would be dependent on a future bond election or the transfer of funds from fund balance.
Miscellaneous Expenses	\$0.00	These funds would be dependent on a future bond election or the transfer of funds from fund balance.
Total	\$4,700,000.00	

Evaluation

Evaluation Process:

RRISD will perform a broad review and evaluation of the results of this plan on an annual basis. Each strategy will be evaluated individually and implementation progress will be assessed. Completed initiatives, successful strategies, progress made to date, and any impediments to progress, will be identified and the findings and recommendations will be presented to the RRISD School Board once per year. This review of RRISD's Technology Long Range Plan will serve to provide an executive level review and will give the RRISD Board members an opportunity to offer direction and input into future planning efforts.

The evaluation process will also enable RRISD to evaluate the effectiveness in the following areas:

- 1) integrating technology into the curricula and instruction,
- 2) increasing the ability of teachers to teach by making learning more relevant through the use of technology, and
- 3) enabling students to interact with challenging content and meet high student academic achievement standards by becoming producers of information and constructing new knowledge.

Evaluation Method:

In addition to the methods utilized by the formal assessment process described above, the following items will also be used to provide input for the evaluation of the technology goals, objectives, and strategies:

STaR Chart results by Teacher and by Campus

Reports from Integration Technology Specialists

Reports from the Information Services department project managers on all technology projects and initiatives

Reports extracted from the following systems:

- District Help Desk Application
- Moodle Statistics
- Campus Help Desk Tickets
- Budget reports on acquisition of products and services
- Professional Development Tracking and Evaluation Systems
- Work Order System
- Campus Recognition Forums
- Internal & external reports on bandwidth utilization

Appendix

Attachment item A:

Round Rock ISD web site.

- Web site: <http://www.roundrockisd.org>

Attachment item B:

District Recognition blog

- Web site: <http://rrisdinsttech.edublogs.org/>

Attachment item C:

Teacher Learning Guides Wiki

- Web site: <https://rrisd-teacherguides.wikispaces.com/>

ROUND ROCK ISD does not discriminate on the basis of sex, disability, race, color, age, or national origin in its educational programs, activities, or employment as required by Title IX, Section 504 and Title VI.